

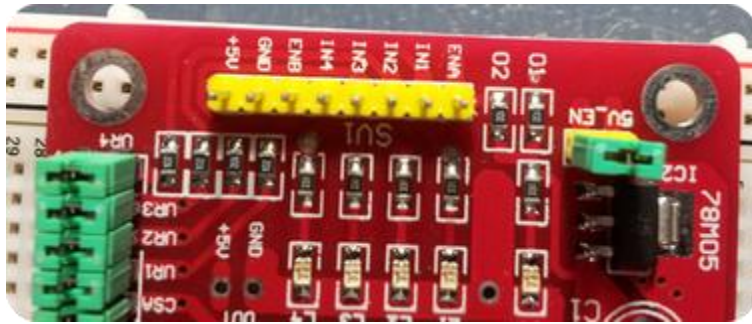
The Funduino Tracking Maze also comes with a L298 Dual H-Bridge Motor driver to control the two wheels of the robot. It's designed to drive inductive loads, such as relays, solenoids, DC and stepping motors. It can also let us drive two independent DC motors, controlling the speed and direction of each one .

The connections on the board are fairly simple to understand:



Here we have several connectors for the motors (from left to right):

Motor A	Power	Motor B
VCC + GND	VMS (vcc) + GND + 5v (external power)	Vcc + GND
Note: To connect to arduino, we use VMS + GND. NOT 5v		



The PINS connections, we have 8 (From left to right):

- 5v
- GND
- ENB (Motor B enable PIN)
- IN4 (Motor B direction 2 PIN)
- IN3 (Motor B direction 1 PIN)
- IN2 (Motor A direction 2 PIN)
- IN1 (Motor A direction 1 PIN)
- ENA (Motor A enable PIN)

So, here's a small resume of directions and how to control them:

Enable Motor HIGH – Enable LOW – Disable Motor

Direction 1 IN1 – HIGH IN2 – LOW

Direction 2 IN1 – LOW IN2 – HIGH

Coasting IN1 – LOW IN2 – LOW

Break IN1 – HIGH IN2 – HIGH